

public. This is because the inherent buoyancy has been reduced to make it more comfortable to wear. So, you may not float adequately without inflating the device. Once the device is inflated you will have a minimum of 22 lb of buoyancy for adult sizes, which should be more than enough to float everyone. (See table above [below] for the actual minimum buoyancy for different Types of hybrids.) Your body weight alone does not determine your in-water-weight. Since there is no simple method of determining your weight in water, you should try the device in the water in both its deflated and inflated condition.

(7) The text in UL 1517, Section 40, item G;

(8) The following text:

WEAR YOUR PFD

Your PFD won't help you if you don't have it on. It is well-known that most boating accidents occur on calm water during a clear sunny day. It is also true that in approximately 80 percent of all boating accident fatalities, the victim did not use a PFD. Don't wait until it's too late. Non-swimmers and children especially should wear their PFD at all times when on or near the water. Hybrid Type I, II, III or V PFDs are not recommended for non-swimmers unless inflated enough to float the wearer.

(9) The text in UL 1517, Section 40, items I, J, K, and L; and

(10) A table with the applicable PFD Type, size, and buoyancy values from Table 160.077-15(b)(13) or 160.077-17(b)(11), as applicable, or provide a reference to appropriate pamphlet table, if the pamphlet is combined with the manual.

(d) *Type V Recreational Hybrid PFD.* For a Type V recreational hybrid PFD the manual contents must be as follows:

(1) The text in UL 1517, Section 40, item A;

(2) Instructions on use including instructions on donning, inflation, replenishing inflation mechanisms, and recommended practice operation;

(3) Instructions on how to properly inspect and maintain the PFD, and recommendations concerning frequency of inspection;

(4) Instructions on how to get the PFD repaired; and

(5) The text in UL 1517, section 40, that is not included under paragraph (d)(1) of this section.

(e) *Commercial Hybrid PFD.* (1) For a commercial hybrid PFD that is "REQUIRED TO BE WORN" the manual must meet the requirements of paragraph (d) of this section.

(2) For a commercial hybrid PFD approved as a "Work Vest Only" or Type I PFD the manual must meet the requirements of either paragraphs (e) (3) and (4) or of paragraph (c) of this section. The manual for a commercial Type I hybrid PFD which is also labeled for use on recreational boats must meet the requirements of paragraph (c) of this section.

(3) Each commercial hybrid PFD approved with special purpose limitation must have a user's manual that—

(i) Explains in detail the proper care, maintenance, stowage, and use of the PFD; and

(ii) Includes any other safety information as prescribed by the approval certificate.

(4) If the manual required in paragraph (e)(3) of this section calls for inspection or service by vessel personnel, the manual must—

(i) Specify personnel training or qualifications needed;

(ii) Explain how to identify the PFDs that need to be inspected; and

(iii) Provide a log in which inspections and servicing may be recorded.

(5) If a PFD light approved under subpart 161.012 is not provided at time of sale, the manual must specify the recommended type of light to be used.

(6) Notwithstanding the requirements of paragraph (b) of this section, manufacturers that make shipments to purchasers that do not redistribute the PFDs, must provide at least one manual in each carton of PFDs shipped.

[CGD 78-174, 50 FR 33928, Aug. 22, 1985, as amended by CGD 78-174, 60 FR 2490, Jan. 9, 1995]

§ 160.077-30 Spare operating components and temporary marking.

(a) *Spare operating components.* Each recreational and commercial hybrid PFD must—

(1) If it has a manual or automatic inflation mechanism and is packaged and sold with one inflation medium cartridge loaded into the inflation

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mechanism, have at least two additional spare inflation cartridges packaged with it. If it is sold without an inflation medium cartridge loaded into the inflation mechanism, it must be packaged and sold with at least three cartridges; and

(2) If it has an automatic inflation mechanism and is packaged and sold with one water sensitive element loaded into the inflation mechanism, have at least two additional spare water sensitive elements packaged with it. If it is sold without a water sensitive element loaded into the inflation mechanism, it must be packaged and sold with at least three water sensitive elements.

(b) *Temporary marking.* Each recreational and commercial hybrid PFD which is sold—

(1) In a ready-to-use condition but which has covers or restraints to inhibit tampering with the inflation mechanism prior to sale, must have any such covers or restraints conspicuously marked “REMOVE IMMEDIATELY AFTER PURCHASE.”; or

(2) Without an inflation medium cartridge, a water sensitive element, or both pre-loaded into the inflation mechanism, must include the markings required in § 160.077-15(c)(3)(ii).

[CGD 78-174, 60 FR 2491, Jan. 9, 1995]

§ 160.077-31 PFD Marking.

(a) *General.* Each hybrid PFD must be marked with the applicable information required by this section. Each marking must be waterproof, clear, permanent, and readable from a distance of three feet.

(b) *Prominence.* Each marking, other than the text in paragraphs (c) and (d) of this section, must be significantly less prominent and in smaller print than paragraph (c) and (d) text.

(c) *Recreational Hybrid PFD.* Each recreational hybrid PFD must be marked with the following text using capital letters where shown and be presented in the exact order shown:

TYPE [II, III, or V, as applicable] PFD

[See paragraph (k) of this section for exact text to be used here]

Recreational hybrid inflatable—Approved for use only on recreational boats. [For Type

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V only] REQUIRED TO BE WORN to meet Coast Guard carriage requirements (except for persons in enclosed spaces as explained in owner’s manual).

[For Type V only] When inflated this PFD provides performance equivalent to a [see paragraph (h) of this section for exact test to be used here].

A Pamphlet and Owner’s Manual must be provided with this PFD.

WARNING—TO REDUCE THE RISK OF DEATH BY DROWNING

- YOU MAY HAVE TO INFLATE THIS PFD TO FLOAT.
- TRY THIS PFD IN THE WATER EACH SEASON TO SEE IF IT WILL FLOAT YOU WITHOUT INFLATION.
- CHOOSE THE RIGHT SIZE PFD AND WEAR IT—FASTEN ALL CLOSURES AND ADJUST FOR SNUG FIT.
- THIS PFD REQUIRES MAINTENANCE. FOLLOW MANUFACTURER’S USE AND CARE INSTRUCTIONS.
- REMOVE HEAVY OBJECTS FROM POCKETS IN AN EMERGENCY.
- [Unless impact tested at high speed as noted on the approval certificate] DO NOT USE IN HIGH-SPEED ACTIVITIES.
- DO NOT DRINK ALCOHOL WHILE BOATING.

(d) *Type I and Commercial Hybrid PFD.* Each Type I hybrid PFD intended for recreational use and each commercial hybrid PFD must be marked with the following text using capital letters where shown and be presented in the exact order shown:

TYPE [“I”, “V”, or “V Work Vest Only”, as applicable] PFD

[See paragraph (k) of this section for exact text to be used here]

Commercial hybrid inflatable—Approved for use on [see paragraph (j) of this section for exact text to be used here].

[For Type V only] When inflated this PFD provides performance equivalent to a [see paragraph (h) of this section for exact test to be used here].

[For Type I devices intended for recreational use] A Pamphlet and Owner’s Manual must be provided with this PFD.

WARNING—TO REDUCE THE RISK OF DEATH BY DROWNING

- YOU MAY HAVE TO INFLATE THIS PFD TO FLOAT.
- TRY THIS PFD IN THE WATER EACH SEASON TO SEE IF IT WILL FLOAT YOU WITHOUT INFLATION.
- [For Type I devices intended for recreational use] CHOOSE THE RIGHT SIZE PFD AND WEAR IT.